FURUNO DEEPSEA WORLD

FURUNO®

MF/HF RADIOTELEPHONE

Integrated MF/HF Radiotelephone, DSC/Watch Receiver, Telex

Models FS-1570/2570

(150 W) (250 W)

- **Distress, safety and routine communications**
- **Fully meets GMDSS carriage requirements**
- **Instant selection of 256 preset channels**
- **160-character message on high-legibility LCD display**
- **Optional NBDP modem and monitor**
- **Easy channel selection with rotary control or direct keyboard input**
- **Scanning of DSC frequencies for distress and general calls on MF/HF**
- **File editing for ready transmission of DSC message**
- **GPS position automatically included in a distress call**



The FS-1570 and 2570 are new MF/HF radio-telephones for general communications and GMDSS applications. Provided in addition to radiotelephony operation are DSC (Digital Selective Call) on general communications and DSC Watch Receiver on all distress and safety frequencies in MF and HF bands.

The FS-1570 and 2570 maintain a continuous watch on a distress call even while you are exchanging normal voice messages. DSC channels can be individually set or all selected channels can be automatically scanned. When a DSC message is received, the radiotelephone gives audible and visual alarms.

The FS-1570 and 2570 work on all authorized transmit frequencies between 1.6 and 27.5 MHz.

Receiver frequencies are selectable between 100 kHz and 30 MHz in 10 Hz steps. The transmit and receive frequencies can be selected separately or in pair. The digital frequency synthesizer provides high frequency stability for DSC and NBDP as well as telephony operation.

The compact cabinet allows a flexible and space-saving installation in a communication console. Optional equipment available are a distress alert unit, received call unit, remote control unit, distress message control unit, etc. In addition a telex modem (NBDP) can be accommodated in the transceiver unit for general message transfer and distress message/maritime safety information handling, satisfying the carriage requirement in GMDSS A3-A4 sea areas.

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001
UKAS QUALITY MANAGEMENT 001

The future today with FURUNO's electronics technology

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Catalogue No. S-023

SPECIFICATIONS OF FS-1570/2570

GENERAL

Frequency Range

	TX: 1.6 to 27.5 MHz RX: 0.1 to 30 MHz
Channels	256 channels, preset by competent service depots, from - All ITU RR Appendix 16 (4 - 27.5MHz) - All distress frequencies in telephony, DSC, NBDP - All telephony frequencies allocated by national authorities according to ITU RR Article 8 (1.6 - 4 MHz)

Rules and Regulations
ITU-R Rec. 493-10(Class A), 541-8, 1082-1
IEC 61097-3/61097-8/61097-9, IEC 61162-1, IEC 60945
IMO Res. A.804(19) and MSC.68(68) amendment, EN 300 338

Frequency Accuracy	±10 Hz (telephony)
Communication System	Simplex or semi-duplex
Class of Emission	J3E (Telephony), J2B (DSC, NBDP)

TRANSCEIVER

RF Output Power	FS-1570: 150 W FS-2570: 250 W (FCC Part 80.215 limits 150 W between 2 and 4 MHz, 400 W on 2182 kHz Reducible to 60 Wpep (Distress in full)
Antenna	7-18 m whip or wire
Tuning Speed	0.2 to 2 s typical
Receiver Output	Capable of providing at least 2 W (1 W/8 Ω, 4 W/4 Ω)

DSC

Distress Call and Message
RR 3112: Format specifier(distress),
Self-ID Nature of distress, Distress coordinates, Time,
Telecommand (EOS, ECC)

Distress and Safety	2187.5, 4207.5, 6312, 8414.5, 12577, 16804.5 kHz
Routine call DSC:	1.6 to 27.5 MHz (FS-2570 only with optional receiver for routine)
Stability:	±0.5 Hz
Message Storage	
Receive:	50 distress messages max. plus 50 non-distress messages
Transmit:	50 messages, Telephone No, Frequency, etc.
Alarms	Audible and visual on receipt of distress, urgency or routine calls, position error
Display	160 characters in 8 lines 95(W) x 60(H) in mm
Frequency shift	Mark 1615 Hz, Space 1785 Hz, 100 baud

Interface

IEC 61162-1

POWER SUPPLY

24 VDC, 20 A (150 W), 35 A (250 W) for TX,
0.8 A (150 W), 1.5 A (250 W)for RX
115/230 VAC with external rectifier

EQUIPMENT LIST

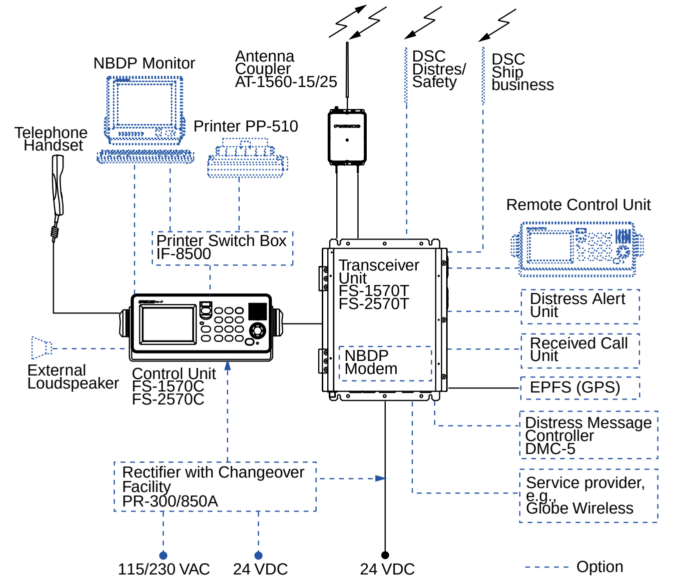
Standard

1.	Transceiver Unit	1 unit
2.	Control Unit	1 unit
3.	Telephone Handset	1 unit
4.	Antenna Coupler AT-1560-15 (FS-1570), AT-1560-25 (FS-2570)	1 unit

Optional

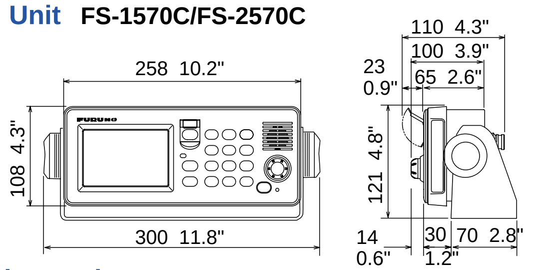
1. Rectifier with changeover facility PR-300 for FS-1570 PR-850A for FS-2570
2. NBDP Monitor and Modem Unit
3. External Loudspeaker
4. Distress Alert Unit IC-302-DSC
5. Received Call Unit IC-303-DSC
6. Control Unit for Remote Station
7. Distress Message Controller DMC-5
8. Whip Antenna
9. Watch Keeping Receiver for routine for FS-2570

INTERCONNECTION DIAGRAM



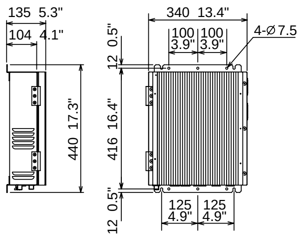
Control Unit FS-1570C/FS-2570C

1.8 kg
4.0 lb

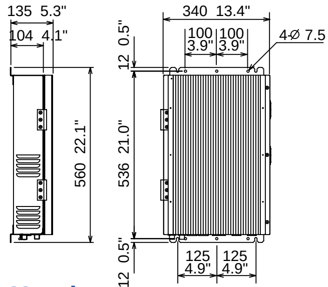


Transceiver Unit

FS-1570T 11.0 kg 24.3 lb



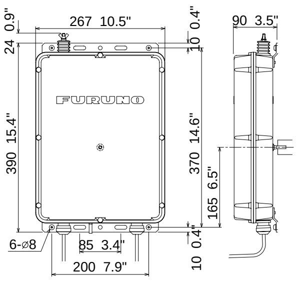
FS-2570T 15.0 kg 33.1 lb



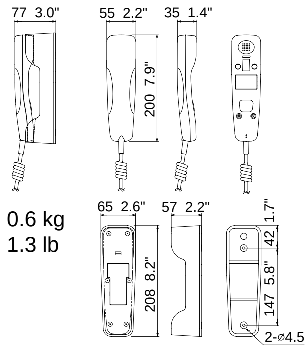
Antenna Coupler

AT-1560-15/AT-1560-25

8.7 kg 19.2 lb



Handset



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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